

FBX521: Wireless RF remote controller

Technical specification



Model: FBX521

Handheld wireless RF remote controller

Features:

- 3 buttons
- RED light indicator, glows when any button is pressed
- Top button (ON) => send ON/CALL signal to the receiver
- Bottom button (OFF) => send OFF/CANCEL signal
- Center button (optional), function of which can be altered as per application requirement

Technical details:

- Transmitter PA +10dbm
- Operating frequency: 315 – 480 MHz
- System operates works on signal hop mechanism. Signal transmission happens at more than 12-15 predefined frequencies
- Modulation type: GFSK
- Radio IC: CC1100 (Chipcon/TI) sub-GHz frequency
- Data packet error correction mechanism: FEC

Battery and operating voltage:

12 Volt (DC battery)
Battery model: 23A
Battery type: Alkaline (dry)
Battery replaceable: Yes
Battery rechargeable: No
Battery mounting: Back cover
Battery life: 3-4years, depending on the usage

RF antenna:

PCB trace antenna / wire coil antenna / metal antenna (depends on environment necessity)

Mounting provisions:

Remote controller can be carried in hand or mounted on the wall using a jacket provided along with the package

Application and features:

- Nurse call system for hospitals: remote with patients
- Steam bath sauna rooms / spas / restaurants etc.
- OPD token system for dispensaries: remote with doctors
- Office peon calling system: remote with clerk / manager
- Guest house attendant call unit: remote with customers in room

Precautions and mounting locations:

- Remotes can be hand operated or mounted on the a door / wall / bed / table or any flat surface
- Easy mounting of remote jacket with 2 screws
- For indoor purpose use only
- Keep away from metallic enclosures
- Do not connect the battery in opposite direction

Range of communication:

- 30-40 meters indoors (depending on environmental condition)
- 100-150 meters outdoors (in open line of sight)

Pressing the button for at least 2-3 seconds improves the range of communication

Remote controller unit:

Enclosure type: ABS plastic (color white)
Remote controller size: 120 x 40 x 20 mm
Remote controller weight: 45 gms

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